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FIG. 1A

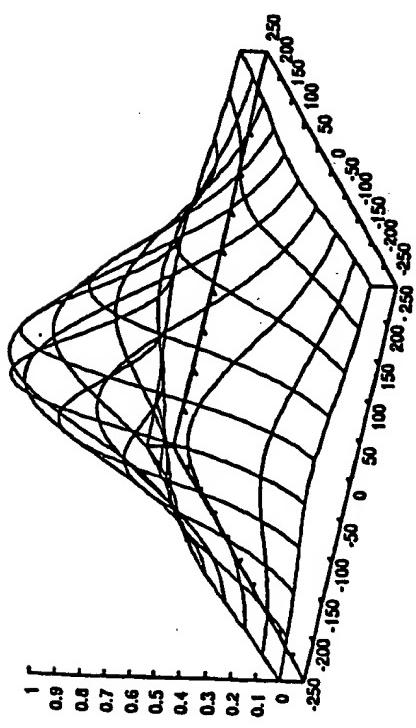


FIG. 1C

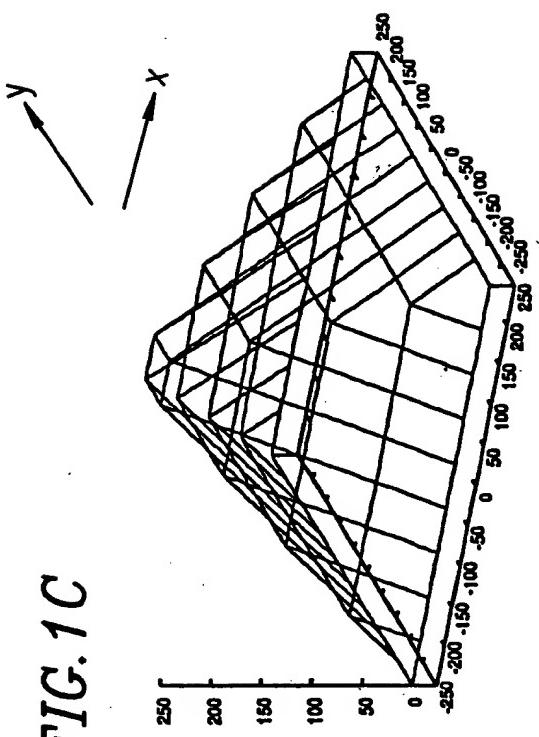


FIG. 1B

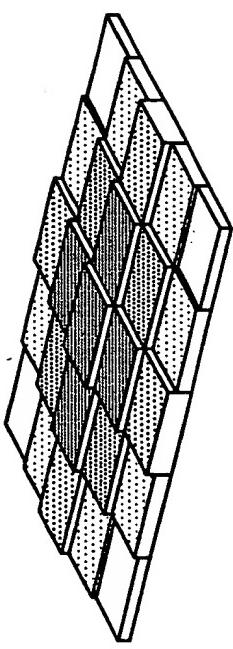
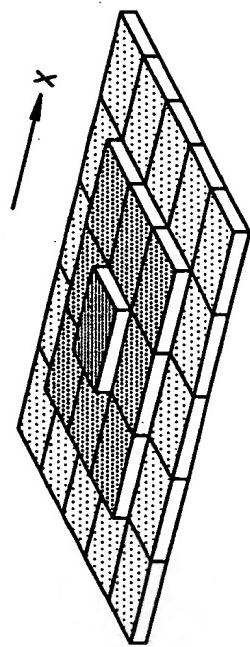


FIG. 1D



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FIG. 2

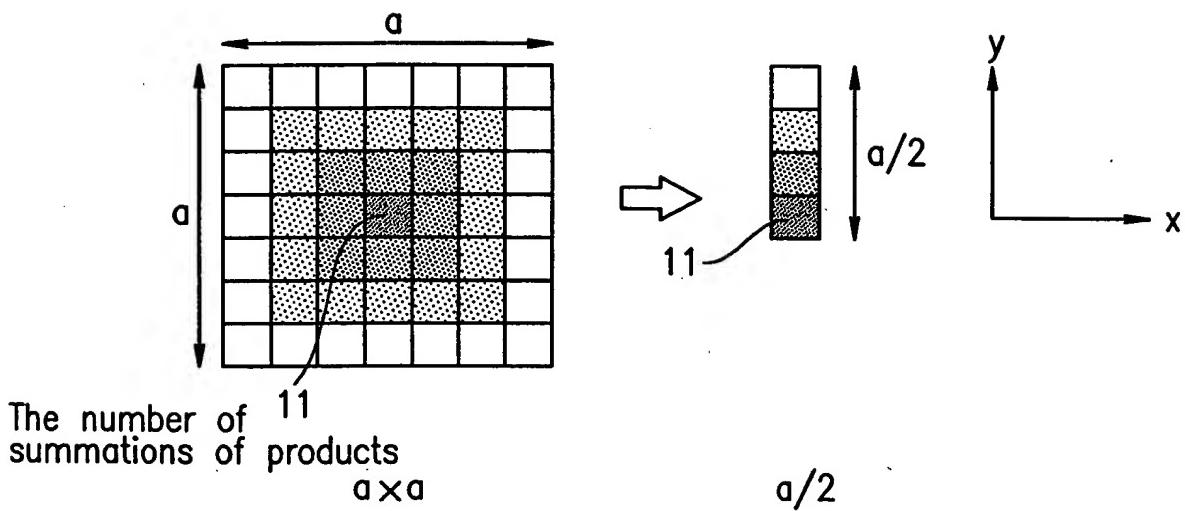
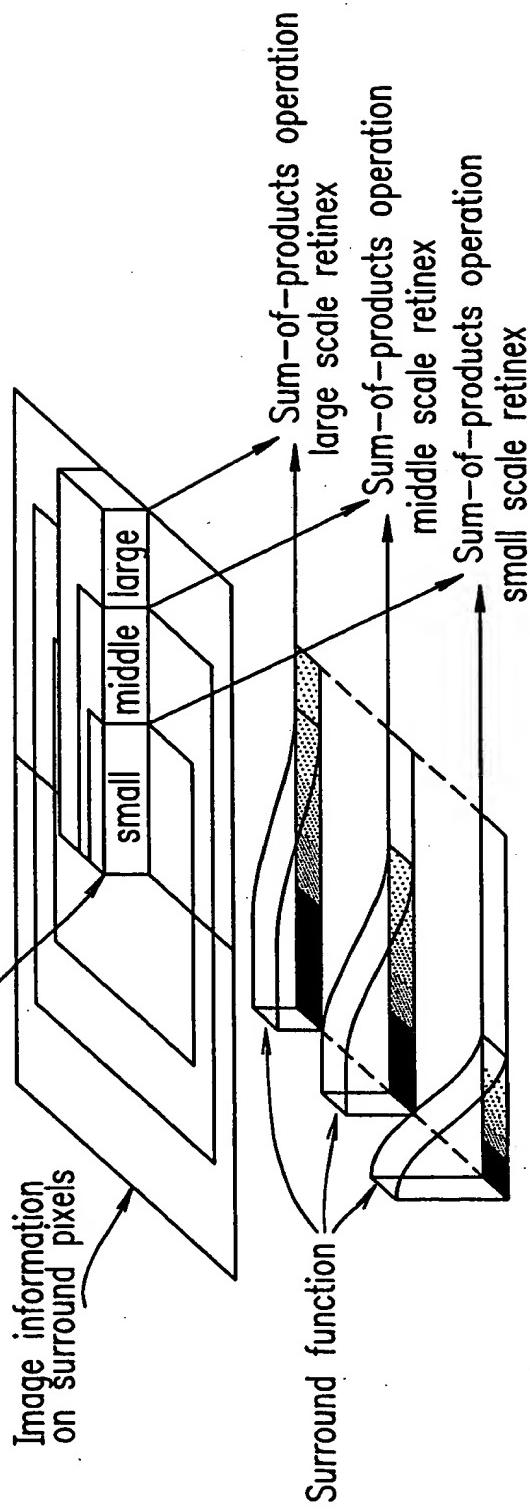


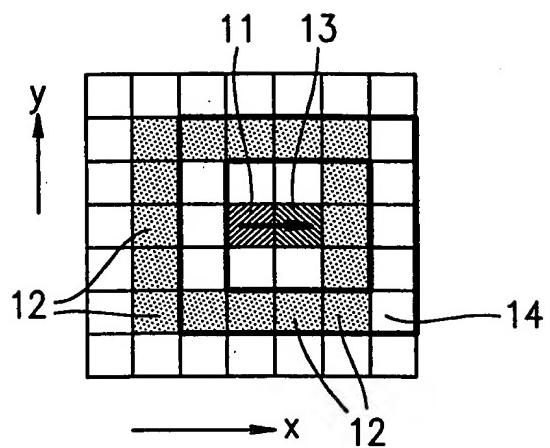
FIG. 3

Sum of image information on surround pixels
at each level of a surround function of a simplified model

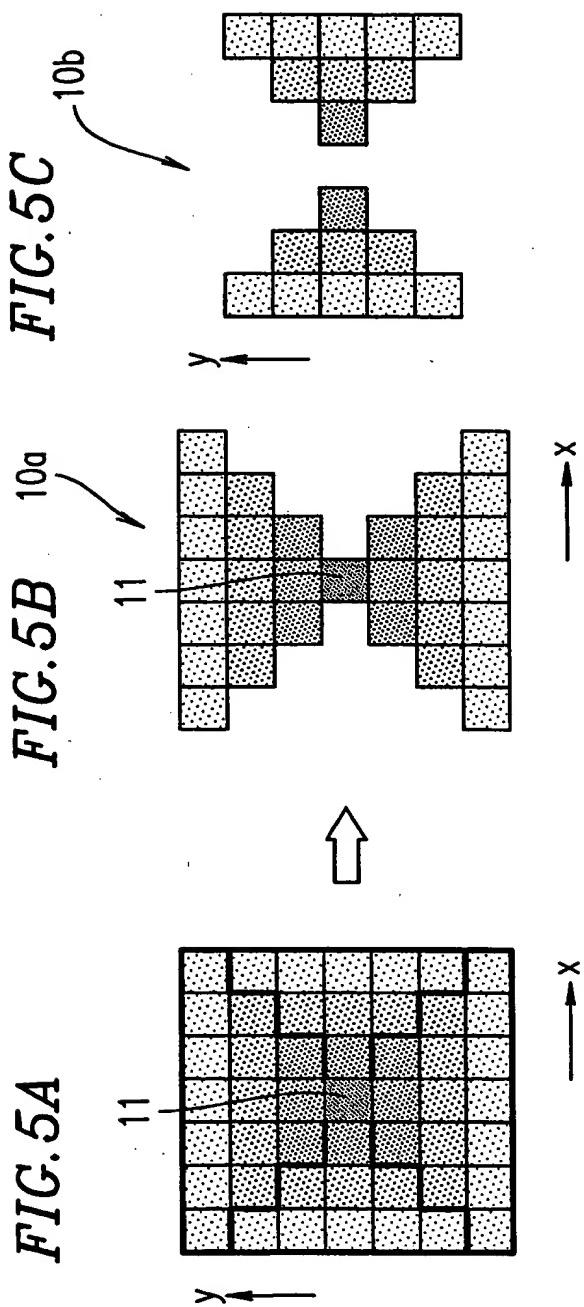


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FIG. 4



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FIG. 6A

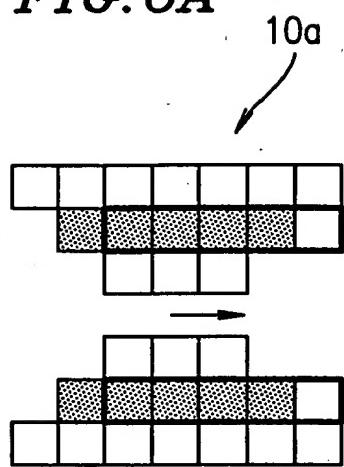
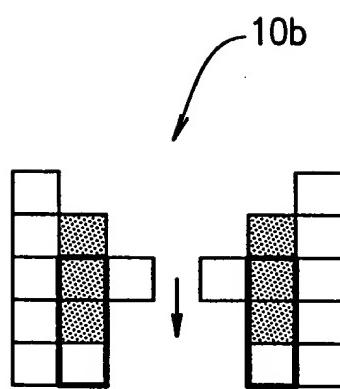
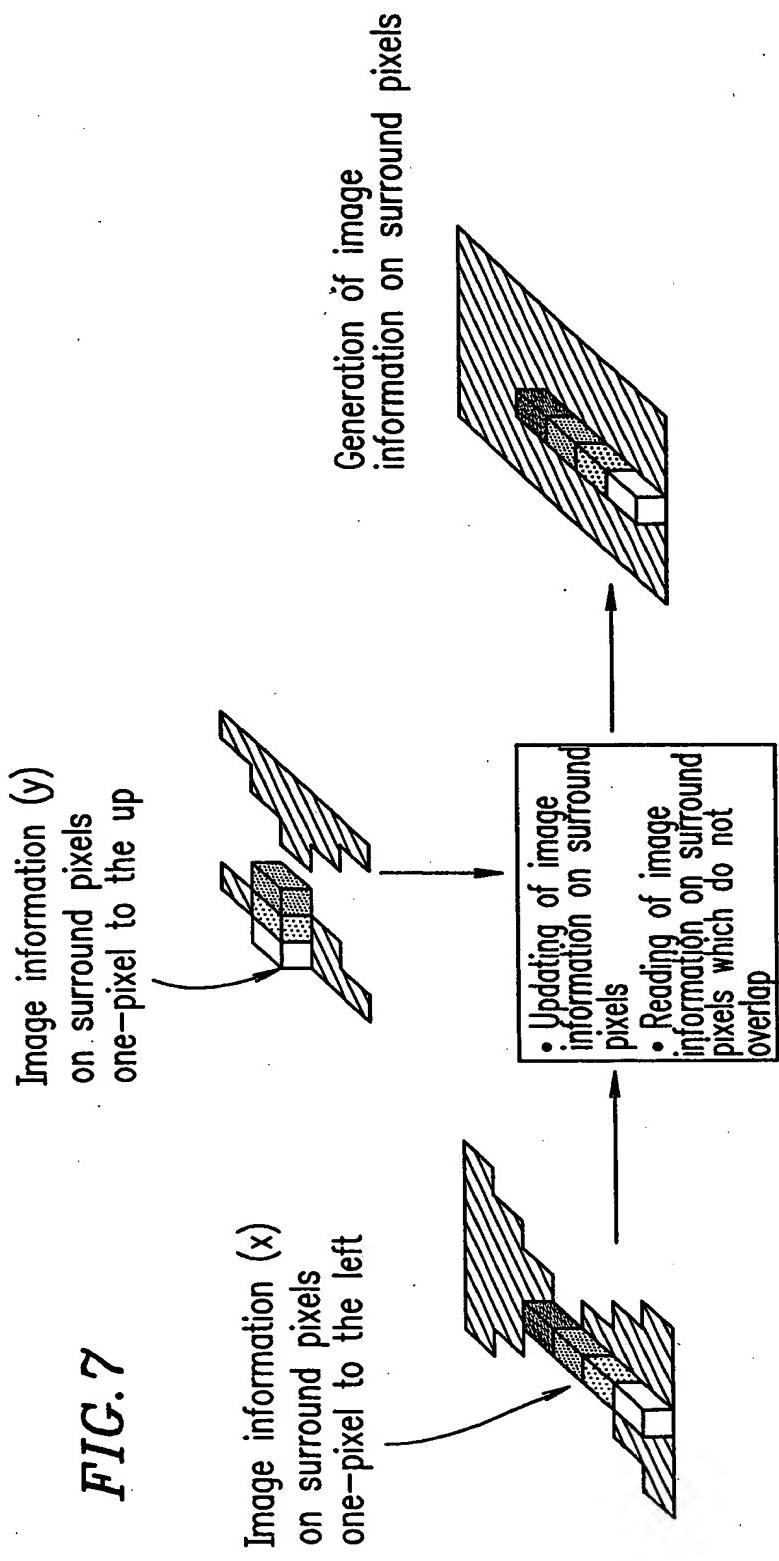


FIG. 6B





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FIG. 8A

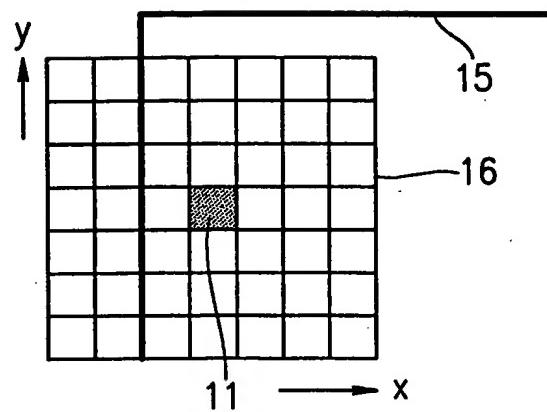
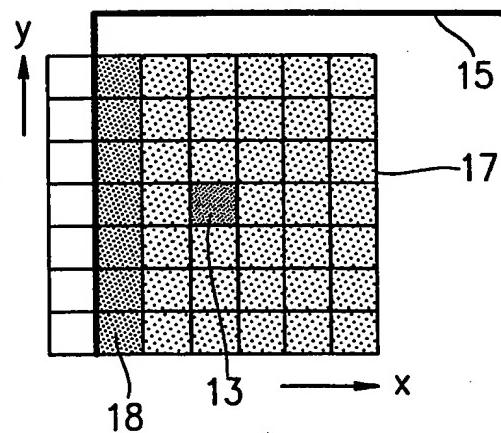


FIG. 8B



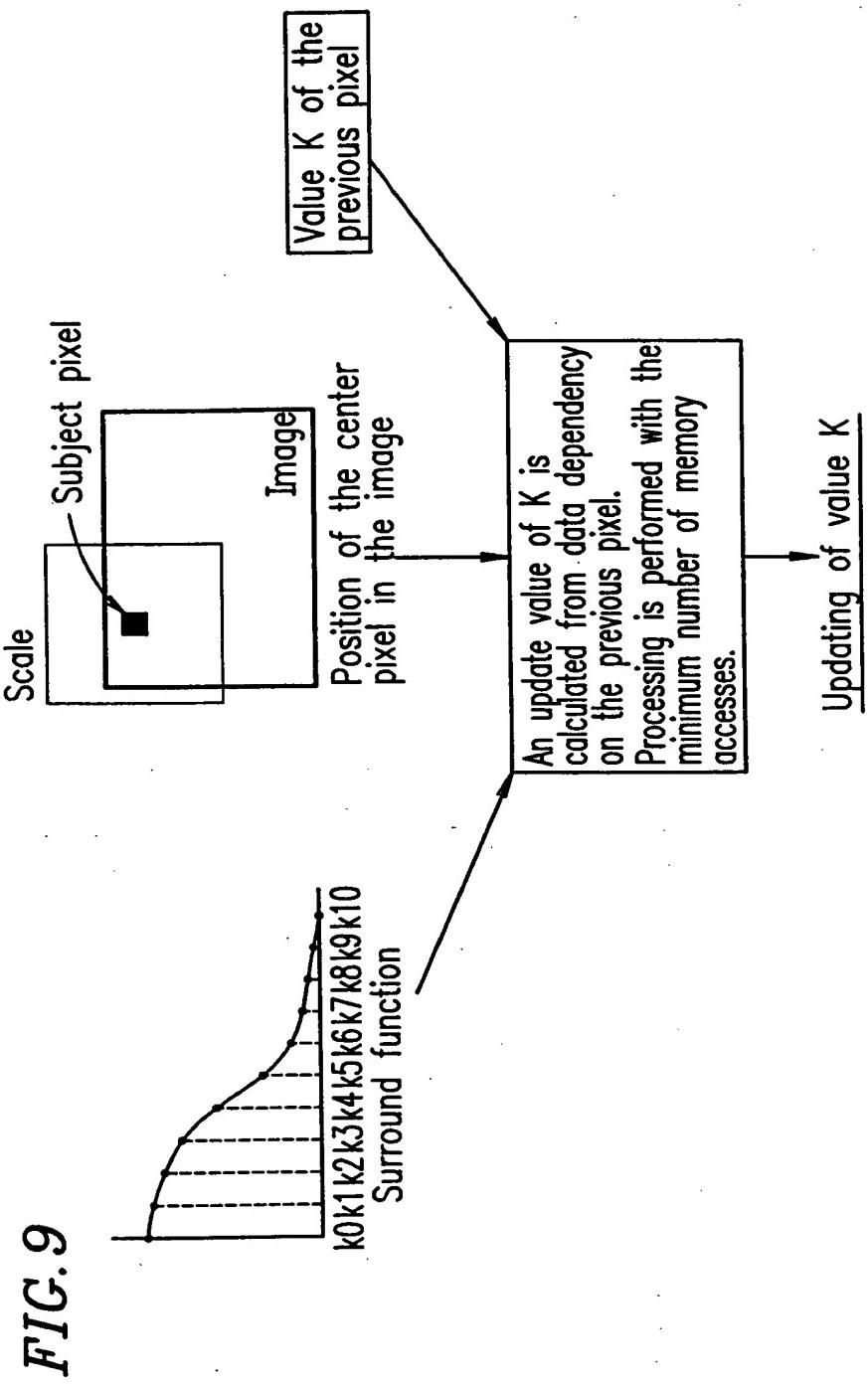
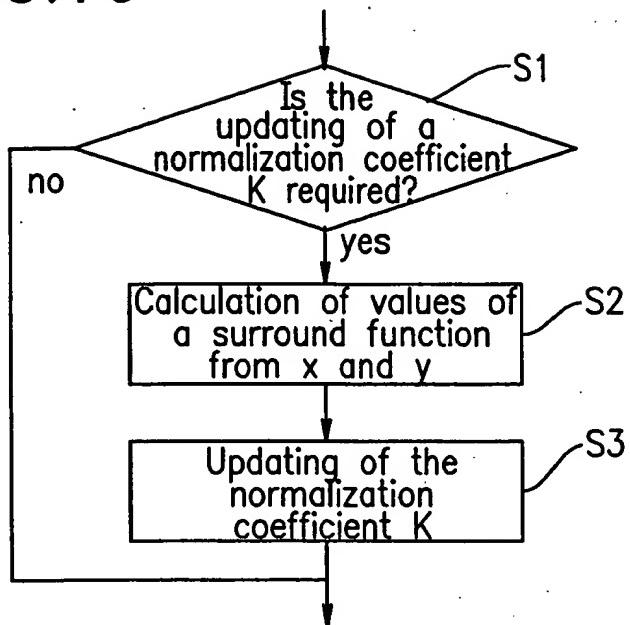


FIG. 10

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FIG. 11

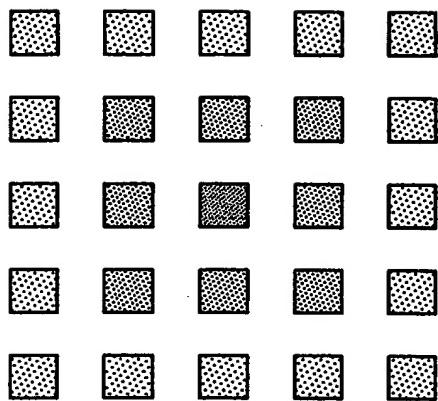


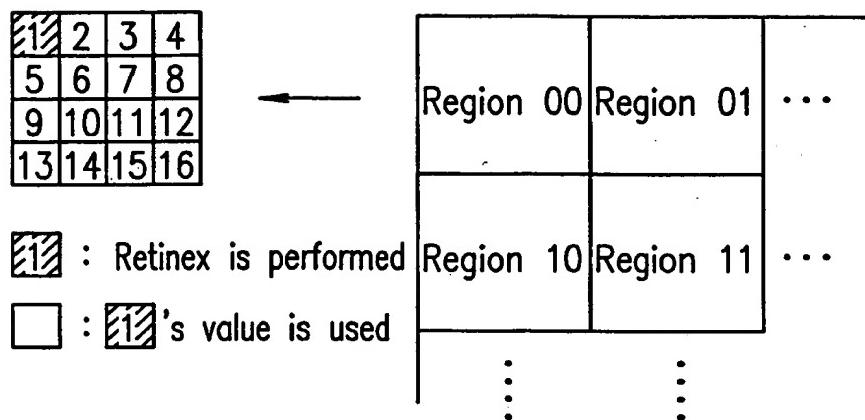
FIG. 12

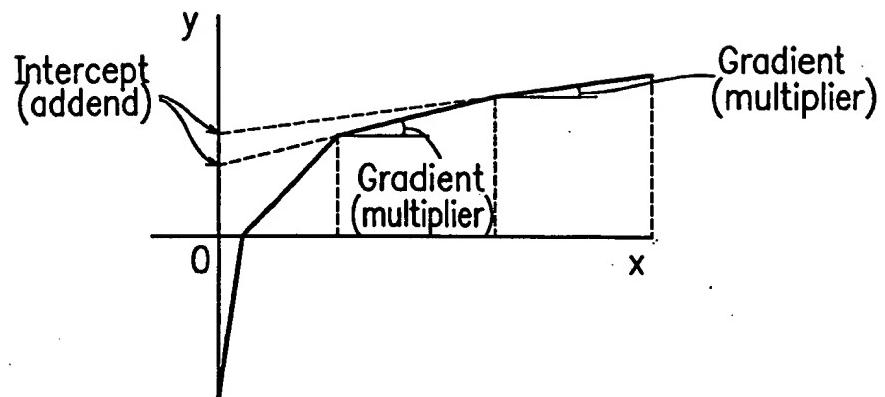
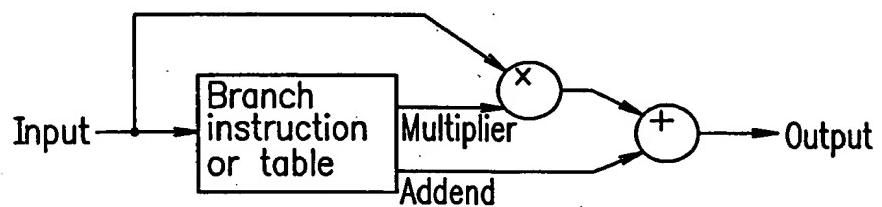
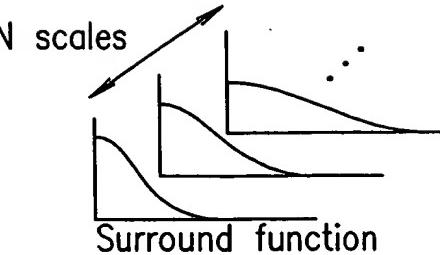
FIG. 13A**FIG. 13B**

FIG. 14

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Original image memory

- Image size ($x \times y$)
- The number of spectral bands
- Data accuracy for each component



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Fast MSR processing apparatus

Approximation of a surround function

A reduction in access to a memory for image information on surround pixels

Fast calculation of a normalization coefficient K

A reduction in the number of times of sampling surround pixels

Omission of the convolution operation

Simplification of the log operation

Intermediate result memory

- Normalization coefficient K : for each scale
- x components of surround information K : for the length of the maximum scale
- y components of surround information K : for the length of the maximum scale \times the width of an image
- etc.

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FIG. 15